



PATENT

ATTORNEY DOCKET NO.: WSR-54 (SRS 02-019)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Brigmon et al ) Examiner: Unknown  
S/N: 10/712,491 ) Art Unit: 1754  
Filed: 11/13/2003 ) Conf. No.: 8337  
Title: Surfactant Biocatalyst for Remediation )  
of Recalcitrant Organic and Heavy )  
Metals )

STATEMENT UNDER 37 CFR §1.97 ACCOMPANYING  
INFORMATION DISCLOSURE STATEMENT

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37 CFR §1.97(b)

/ x / The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR §1.97(c)

/ / The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b) provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

/ / the statement specified in 37 CFR 1.97(e); OR

/ / the fee set forth in 37 CFR 1.17(p).

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37 CFR §1.97 (d)

/ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(d), and on or before payment of the issue fee, and is accompanied by the Statement as specified in 37 CFR 1.97(e) and the fee set forth in 37 CFR 1.17(p).

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/ Statement under 37 CFR 1.97(e)(1) – Each item of information contained in the accompanying Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

/ Statement under 37 CFR 1.97(e)(2) – No item of information contained in the accompanying Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersign person, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

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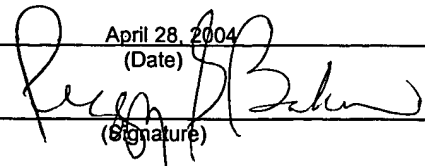
Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop IDS, Commissioner of Patents, P O Box 1450, Alexandria, VA 22313-1450 on

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	10/712,491
Filing Date	11/13/2003
First Named Inventor	Robin Brigmon
Art Unit	1754
Examiner Name	Unknown
Attorney Docket Number	WSR-54 (SRS 02-019)

Sheet	1	of	3
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### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HEITCAMP & CERNIGLIA, "Effects of Chemical Structure and Exposure on the Microbial Degradation of Polycyclic Aromatic Hydrocarbons in Freshwater & Estuarine Ecosystems", Env. Toxicology & Chem, Vol. 6, pp 535-546, 1987.	
		DABROCK et al, "Identification & Characterization of a Transmissible Linear Plasmid From Rhodococcus erythropolis BD2 That Encodes Isopropylbenzene & Trichlorethene Catabolism", Applied & Env. Microbiology, Vol. 60, No. 3, Mar, 1994, pp 853-860.	
		ROSSELO-MORA et al, "Comparative Biochemical and Genetic Analysis of Naphthalene Degradation among Pseudomonas stutzeri Strains", Applied & Env. Microbiology, Vol. 60, No. 3, Mar, 1994, pp 966-972.	
		JUHASZ et al, "Microbial degradaton and detoxification of high molecular weight polycyclic aromatic hydrocarbons by Stenotrophomonas maltophilia strain VUN 10,003", Letters in App. Microbiology 2000, Vol. 30, pp 396-401.	
		STORY et al, "Identification of four structural genes and two putative promoters necessary for utilization of naphthalene, phenanthrene, and fluoranthene by Sphingomonas paucimobilis var. EPA505", Gene, Vol. 260, 2000, pp 155-169.	
		HAMMER et al, "Isolation and Characterization of a Dibenzofuran-Degrading Yeast: Identification of Oxidation and Ring Cleavage Products", App. & Env Microbiology, Vol. 64, No. 6. June 1998, pp 2215-2219.	
		GORDEN et al, "Rapid screening for bacteria capable of degrading toxic organic compounds", J of Microbiological Methods Vol. 18, 1993, pp 339-347.	
		BEZALEL et al, "Initial Oxidation Products in the Metabolism of Pyrene, Anthracene, Fluorene, and Dibenzothiophene by the White Rot Fungus Pleurotus ostreatus", App & Env Microbiology, Vol. 62, No. 7, July 1996, pp 2554-2559.	
		SMIT et al, "Analysis of Fungal Diversity in the Wheat Rhizosphere by Sequencing of Cloned PCR-Amplified Genes Encoding 18S rRNA and Temperature Gradient Gel Electrophoresis", App & Env Microbiology, Vol. 65, No. 6, June, 1999 pp 2614-2621.	
		STRAUB et al, "Anaerobic, Nitrate-Dependent Microbial Oxidation of Ferrous Iron", App & Env Microbiology, Vol. 62, No. 4, April 1996, pp 1458-1460.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		QUENTMEIER & FRIEDRICH, "Transfer and Expression of Degradative and Antibiotic Resistance Plasmids in Acidophilic Bacteria", App & Env Microbiology, Vol. 60, No. 3, March 1994, pp 973-978.	
		KASTNER et al, "Impact of Inoculation Protocols, Salinity, and pH on the Degradation of Polycyclic Aromatic Hydrocarbons (PAHs) and Survival of PAH-Degrading Bacteria Introduced into Soil", App & Env Microbiology, Vol. 64, No. 1, Jan. 1998, pp 359-362.	
		GROSSER et al, "Indigenous and Enhanced Mineralization of Pyrene, Benzo[a]pyrene, and Carbazole in Soils", App & Env Microbiology, Vol. 57, No. 12, Dec 1991, pp 3462-3469.	
		COATES et al, "Oxidation of Polycyclic Aromatic Hydrocarbons under Sulfate-Reducing Conditions", App & Env. Microbiology, Vol. 62, No. 3, March 1996, pp 1099-1101.	
		STAPLETON et al, "Biodegradation of Aromatic Hydrocarbons in an Extremely Acidic Environment", App & Env Microbiology, Vol. 64, No. 11, Nov 1998, pp 4180-4184.	
		KANALY & HARAYAMA, "Biodegradation of High-Molecular-Weight Polycyclic Aromatic Hydrocarbons by Bacteria", J of Bacteriology, Vol. 182, No. 8, April 2000, pp 2059-2067.	
		GOGOLEV & WILKE, "Combination effects of heavy metals and fluoranthene on soil bacteria", Biol Fertil Soils (1977) 25:274-278.	
		EATON & CHAPMAN, "Formation of Indigo and Related Compounds from Indolecarboxylic Acids by Aromatic Acid-Degrading Bacteria: Chromogenic Reactions for Cloning Genes Encoding Dioxygenases That Act on Aromatic Acids", J of Bacteriology, Vol. 177, No. 23, Dec 1995, pp 6983-6988.	
		ZINK & LORBER, "Mass Spectral Identification of Metabolites Formed by Microbial Degradation of Polycyclic Aromatic Hydrocarbons (PAH), Chemosphere, Vol. 31, No. 9, 1995, pp 4077-4084.	
		MacGILLIVRAY & SHIARIS, "Biotransformation of Polycyclic Aromatic Hydrocarbons by Yeasts Isolated from Coastal Sediments", App & Env Microbiology, Vol. 59, No. 5, May 1993, pp 1613-1618.	

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		TRZESICKA-MLYNARZ & WARD, "Degradation of polycyclic aromatic hydrocarbons (PAHs) by a mixed culture and its component pure cultures, obtained from PAH-contaminated soil", Can J. Microbiology 41:470-476 (1995).	
		ISHIDA & NAKUMURA, "Trichloroethylene Degradation by Ralstonia sp. KN1-10A Constitutively Expressing Phenol Hydroxylase: Transformation Products, NADH Limitation, and Product Toxicity", J. Bioscience & Bioengineering, Vol. 89, No. 5, 438-445, 2000.	
		NAKAMURA, ISHIDA & IIZUMI, "Constitutive Trichloroethylene Degradation Led by tac Promoter Chromosomally Integrated Upstream of Phenol Hydroxylase Genes of Ralstonia sp. KN1 and Its Nucleotide Sequence Analysis", J. Bioscience & Bioengineering, Vol. 89, No. 1, 47-54, 2000.	
		KASTNER, BREUER-JAMMALI & MAHRO, "Enumeration and characterization of the soil microflora from hydrocarbon-contaminated soil sites able to mineralize polycyclic aromatic hydrocarbons (PAH)", J. Microbiol Biotechnol (1994) 41:267-273.	

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